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Problems Encountered During Test and Evaluation of Copy Camera.

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- Lack of escomodation of different film speeds.
   Specifically required are the following:
  - A. Type 146L: ASA 120 positive B & W Transparency

B. Type 42 : ASA 200 B & W paper print

- C. Type 46 : ASA 800 positive B & W Transparency
- 2. Lack of field flatness. The resolution loss between the center of the format and the corners is at least 50% even at f-16. Using larger aperture openings—the loss is even greater.
  - 3. Lack of simple operating procedure.

## Methods of Improvement

- 1. Modify the lens to operate at a specific f-stop which will be labeled N (Normal). One f-stop on each side of the normal should be provided and marked L (Light) and D (Dark) to allow the operator to lighten or darken a "Hormal" print.
- 2. We less than 20% resolution less at the corners of the format should be a goal. On axis resolution should be equal or greater than that of the best film listed above.
- 3. A separate setting should be provided for the specific type of film being used. This setting should be marked to correspond with the three films but ASA speed values would be acceptable.
- 4. The blue color selector lever and the automatic exposure control masking lever should be eliminated.
- 5. The shutter release cable should be constructed to allow the operator to trip the shutter by simply depressing the cable plunger and releasing it. Presently it must be held until the shutter closes.